

Special Issue

Surface Plasmon Resonance in Optical Sensing

Message from the Guest Editor

Surface plasmon resonance (SPR) is a powerful optical phenomenon that has revolutionized the field of sensing. It involves the interaction between light and free electrons at the interface between a metal and dielectric material, resulting in enhanced sensitivity and real-time monitoring capabilities. SPR is applied in several fields, including biomedical sciences, environmental monitoring, and chemical analysis, because of its efficiency. This Special Issue aims to explore the recent advancements in SPR technology, covering sensor design, materials, theoretical models, signal analysis techniques, and applications. It will focus on designing SPR-based sensing platforms with enhanced sensitivity and selectivity and highlight the importance of optimizing plasmonic nanostructures and materials for improved sensor performance. We hope to provide a valuable resource for researchers and scientists in optical sensing and nanotechnology. Potential contribution topics include, but are not limited to, the aforementioned applications.

Guest Editor

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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